

## Detailed Data Tables: Men Who Have Sex with Men (MSM)

<b>Table 1. People diagnosed with HIV infection by exposure mode: Massachusetts, 2004–2006<sup>1</sup></b>		
<b>Exposure Mode:</b>	<b>HIV Diagnoses</b>	
	<b>N</b>	<b>%</b>
Male-to-male sex (MSM)	940	37%
Injection Drug Use (IDU)	353	14%
MSM/IDU	49	2%
Receipt of Blood/Blood products	1	<1%
Pediatric	17	1%
Total Heterosexual Sex (HTSX)	278	11%
• HTSX w/ an injection drug user	86	3%
• HTSX w/bisexual male	2	<1%
• HTSX w/ person who received blood/blood products	2	<1%
• HTSX w/ a person w/ HIV or AIDS	188	7%
Total Undetermined/Other	933	36%
• Presumed Heterosexual Sex <sup>2</sup>	599	23%
• Undetermined/Other <sup>3</sup>	334	13%
<b>TOTAL</b>	<b>2,571</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis  
<sup>2</sup> Heterosexual sex with partners with unknown risk and HIV status  
<sup>3</sup> Includes those still being followed up for risk information, those who have died with no determined risk, those lost to follow-up, and confirmed occupational exposure  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

*Note: The category of “presumed heterosexual sex” is used in Massachusetts to re-assign people who are reported with no identified risk but who are known to have not reported any other risks except heterosexual sex with a partner of unknown HIV status or risk. Massachusetts uses this category to distinguish these cases from other undetermined cases about which we know less. Nationally, the Centers for Disease Control and Prevention categorizes “presumed heterosexual sex” cases as “no identified risk” (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk is for people in this category. Although a person may not report other risk behaviors such as injection drug use or male-to-male sex to his/her health care provider, it does not necessarily mean that he/she has not engaged in them. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.*

**Table 2. Males diagnosed with HIV infection by mode of exposure: Massachusetts, 2004–2006<sup>1</sup>**

HIV 2004–2006		
Mode:	N	%
Total Male-to-male sex (MSM)	989	53%
• MSM	940	51%
• MSM/Injection Drug Use (IDU)	49	3%
Non-MSM	871	47%
<b>Total</b>	<b>1,860</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 3. People living with HIV/AIDS on December 31, 2007 by exposure mode: Massachusetts**

HIV/AIDS		
Exposure Mode:	N	%
Male-to-male sex (MSM)	5,773	34%
Injection Drug Use (IDU)	4,278	25%
MSM/IDU	539	3%
Receipt of Blood/Blood products	104	1%
Pediatric	301	2%
Total Heterosexual Sex (HTSX)	2,281	13%
• HTSX w/ an Injection Drug User	939	6%
• HTSX w/Bisexual male	39	<1%
• HTSX w/ person who received blood/blood products	27	<1%
• HTSX w/ a person w/ HIV or AIDS	1,276	8%
Total Undetermined/Other	3,701	22%
• Presumed Heterosexual Sex <sup>1</sup>	2,643	16%
• Undetermined/Other <sup>2</sup>	1,058	6%
<b>TOTAL</b>	<b>16,977</b>	<b>100%</b>

<sup>1</sup> Heterosexual sex with partners with unknown risk and HIV status  
<sup>2</sup> Includes those still being followed up for risk information, those who have died with no determined risk, those lost to follow-up, and confirmed occupational exposure  
 Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 4. Males living with HIV/AIDS on December 31, 2007 by mode of exposure: Massachusetts**

Living with HIV/AIDS		
Mode:	N	%
Total Male-to-male sex (MSM)	6,312	52%
• MSM	5,773	48%
• MSM/Injection Drug Use (IDU)	539	4%
Non-MSM	5,788	48%
<b>Total</b>	<b>12,100</b>	<b>100%</b>
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08		

**Table 5. Percent of people diagnosed with HIV infection by Health Service Region (HSR)<sup>1</sup> and exposure mode: Massachusetts, 2004–2006<sup>2</sup>**

HSR:	MSM <sup>3</sup>	IDU <sup>4</sup>	MSM/ IDU	HTSX <sup>5</sup>	Other <sup>6</sup>	Pres. HTSX <sup>7</sup>	Undet. <sup>8</sup>	Total
Boston HSR	50%	8%	2%	7%	1%	20%	12%	805
Central HSR	23%	22%	1%	15%	1%	31%	7%	227
Metro West HSR	38%	9%	4%	10%	0%	24%	15%	348
Northeast HSR	28%	10%	2%	13%	1%	29%	18%	405
Southeast HSR	43%	12%	1%	9%	1%	19%	14%	342
Western HSR	24%	26%	2%	16%	1%	22%	10%	364
Prison <sup>9</sup>	10%	36%	1%	10%	0%	29%	13%	78
<b>MA Total</b>	<b>37%</b>	<b>14%</b>	<b>2%</b>	<b>11%</b>	<b>1%</b>	<b>23%</b>	<b>13%</b>	<b>2,571</b>

<sup>1</sup> Reflects the Health Service Region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at

[http://www.mass.gov/dph/aids/research/profile2005/app5\\_hrs\\_maps.pdf](http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf) for configuration of Health Service Regions

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>3</sup> MSM = Male-to-male sex

<sup>4</sup> IDU = Injection Drug Use

<sup>5</sup> HTSX = Heterosexual Sex

<sup>6</sup> Other includes pediatric and receipt of blood/blood products

<sup>7</sup> Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

<sup>8</sup> Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>9</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 6. Percentage distribution of people living with HIV/AIDS on December 31, 2007 by Health Service Region (HSR)<sup>1</sup> and exposure mode: Massachusetts**

HSR	MSM <sup>2</sup>	IDU <sup>3</sup>	MSM/ IDU	HTSX <sup>4</sup>	Other <sup>5</sup>	Pres. HTSX <sup>6</sup>	Undet. <sup>7</sup>	Total
Boston HSR	46%	17%	3%	11%	2%	15%	6%	<b>5,445</b>
Central HSR	21%	34%	3%	17%	4%	17%	4%	<b>1,519</b>
Metro West HSR	38%	15%	3%	12%	3%	20%	9%	<b>2,184</b>
Northeast HSR	30%	22%	3%	15%	2%	19%	8%	<b>2,463</b>
Southeast HSR	37%	26%	3%	15%	2%	11%	6%	<b>2,351</b>
Western HSR	22%	33%	3%	19%	3%	15%	6%	<b>2,030</b>
Prison <sup>8</sup>	6%	72%	5%	6%	<1%	9%	3%	<b>974</b>
<b>MA Total</b>	<b>34%</b>	<b>25%</b>	<b>3%</b>	<b>13%</b>	<b>2%</b>	<b>16%</b>	<b>6%</b>	<b>16,977</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence); see Epidemiologic Profile General Appendices, Health Service Region Maps, available at [http://www.mass.gov/dph/aids/research/profile2005/app5\\_hrs\\_maps.pdf](http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf) for configuration of health service regions

<sup>2</sup> MSM = Male-to-male sex

<sup>3</sup> IDU = Injection Drug Use

<sup>4</sup> HTSX = Heterosexual Sex

<sup>5</sup> Other includes pediatric and receipt of blood/blood products

<sup>6</sup> Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status

<sup>7</sup> Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

<sup>8</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 7. Top 10 Cities/Towns<sup>1</sup> in Massachusetts by Proportion of HIV Infection Diagnoses (HIV Dx) with Male-to-Male Sex (MSM) or Male-to-Male Sex and Injection Drug Use (MSM/IDU) as Primary Reported Exposure Mode: 2004–2006<sup>2</sup>**

Rank	City/Town	Number of HIV DX among MSM and MSM/IDU	Percent of Total HIV DX
1	Provincetown	29	94%
2	Cambridge	34	54%
2	Medford	14	54%
3	Boston	389	52%
4	Somerville	25	46%
5	Quincy	13	43%
6	Everett	9	38%
6	Revere	9	38%
7	Haverhill	8	36%
8	Lynn	14	29%

<sup>1</sup> Among cities/towns with over 20 reported HIV Infection diagnoses in the years 2004–2006. Note: reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis  
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 8. Males diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts, before 1999, 1999–2006<sup>1</sup>**

	MSM <sup>2</sup>		IDU <sup>3</sup>		MSM/ IDU		HTSX <sup>4</sup>		Other <sup>5</sup>		Pres. HTSX <sup>6</sup>		Undeter- -mined <sup>7</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
<1999	7,616	48%	5,039	32%	866	5%	566	4%	478	3%	723	5%	511	3%	15,799
1999	373	40%	272	30%	38	4%	66	7%	11	1%	117	13%	45	5%	922
2000	359	43%	174	21%	24	3%	65	8%	12	1%	133	16%	62	7%	829
2001	318	44%	148	20%	28	4%	62	9%	4	1%	111	15%	53	7%	724
2002	334	45%	135	18%	27	4%	56	8%	7	1%	120	16%	59	8%	738
2003	327	49%	107	16%	25	4%	45	7%	11	2%	86	13%	67	10%	668
2004	312	46%	99	15%	18	3%	45	7%	4	1%	106	16%	97	14%	681
2005	332	51%	98	15%	22	3%	27	4%	0	0%	99	15%	78	12%	656
2006 <sup>7</sup>	296	57%	43	8%	9	2%	35	7%	1	<1%	82	16%	57	11%	523

<sup>1</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> MSM = Male-to-male sex<sup>3</sup> IDU = Injection Drug Use<sup>4</sup> HTSX = Heterosexual Sex<sup>5</sup> Other includes pediatric and receipt of blood/blood products<sup>6</sup> Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status<sup>7</sup> Undetermined includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up<sup>8</sup> 2006 data are preliminary

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 9. Males diagnosed with HIV infection by mode of exposure and race/ethnicity: Massachusetts, 2004–2006<sup>1</sup>**

Race	MSM <sup>2</sup>		MSM/IDU <sup>3</sup>		MSM + MSM/IDU		Non- MSM/Unknown Males Only <sup>4</sup>	
	N	%	N	%	N	%	N	%
White NH <sup>5</sup>	626	67%	35	71%	661	67%	231	27%
Black NH	132	14%	6	12%	138	14%	322	37%
Hispanic	161	17%	8	16%	169	17%	293	34%
API <sup>6</sup>	17	2%	0	0%	17	2%	18	2%
Other/Undet. <sup>7</sup>	4	<1%	0	0%	4	<1%	7	1%
<b>Total</b>	<b>940</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>989</b>	<b>100%</b>	<b>871</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> MSM = Male-to-male sex<sup>3</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>4</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk<sup>5</sup> NH=Non-Hispanic<sup>6</sup> API=Asian/Pacific Islander<sup>7</sup> Other/Undet. = Other/Undetermined; includes American Indian/Alaska Native and Undetermined Race/Ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 10. Males living with HIV/AIDS on December 31, 2007 by mode of exposure and race/ethnicity: Massachusetts**

Race	MSM <sup>1</sup>		MSM/IDU <sup>2</sup>		MSM + MSM/IDU		NON-MSM/Unknown Males Only <sup>3</sup>	
	N	%	N	%	N	%	N	%
White NH <sup>4</sup>	4,240	73%	319	59%	4,559	72%	1,688	29%
Black NH	685	12%	103	19%	788	12%	1,969	34%
Hispanic	733	13%	114	21%	847	13%	2,016	35%
API <sup>5</sup>	81	1%	1	<1%	82	1%	84	1%
Other/Undet. <sup>6</sup>	34	1%	2	<1%	36	<1%	31	1%
<b>Total</b>	<b>5,773</b>	<b>100%</b>	<b>539</b>	<b>100%</b>	<b>6,312</b>	<b>100%</b>	<b>5,788</b>	<b>100%</b>

<sup>1</sup> MSM = Male-to-male sex<sup>2</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>3</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk<sup>4</sup> NH=Non-Hispanic<sup>5</sup> API=Asian/Pacific Islander<sup>6</sup> Other/Undet. = Other/Undetermined; includes American Indian/Alaska Native and Undetermined Race/Ethnicity

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 11. Males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2004–2006<sup>1</sup>**

	<b>MSM<sup>2</sup></b>		<b>MSM/IDU<sup>3</sup></b>		<b>MSM + MSM/IDU</b>		<b>Non- MSM/Unknown Males Only<sup>4</sup></b>	
<b>Years:</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	0	0%	0	0%	0	0%	4	<1%
13 to 19	17	2%	0	0%	17	2%	4	<1%
20 to 24	77	8%	3	6%	80	8%	26	3%
25 to 29	119	13%	2	4%	121	12%	68	8%
30 to 34	133	14%	11	22%	144	15%	108	12%
35 to 39	210	22%	12	24%	222	22%	154	18%
40 to 44	183	19%	9	18%	192	19%	179	21%
45 to 49	106	11%	8	16%	114	12%	160	18%
50+	95	10%	4	8%	99	10%	168	19%
<b>Total</b>	<b>940</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>989</b>	<b>100%</b>	<b>871</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> MSM = Male-to-male sex<sup>3</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>4</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08



**Table 12. MSM<sup>1</sup> and Non-MSM/Unknown<sup>2</sup> males diagnosed with HIV infection by race/ethnicity and age at HIV diagnosis: Massachusetts, 2004–2006<sup>3</sup>**

	White Non-Hispanic		Black Non-Hispanic		Hispanic	
<b>MSM</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	0	0%	0	0%	0	0%
13 to 19	3	<1%	9	7%	4	2%
20 to 24	41	6%	26	19%	11	7%
25 to 29	65	10%	23	17%	31	18%
30 to 34	90	14%	16	12%	34	20%
35 to 39	144	22%	27	20%	44	26%
40 to 44	139	21%	20	14%	31	18%
45 to 49	93	14%	8	6%	10	6%
50+	86	13%	9	7%	4	2%
<b>Total</b>	<b>661</b>	<b>100%</b>	<b>138</b>	<b>100%</b>	<b>169</b>	<b>100%</b>
<b>Non-MSM/ Unknown</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	1	<1%	1	<1%	2	1%
13 to 19	0	0%	3	1%	1	<1%
20 to 24	6	3%	8	2%	11	4%
25 to 29	12	5%	15	5%	36	12%
30 to 34	17	7%	40	12%	47	16%
35 to 39	41	18%	54	17%	57	19%
40 to 44	59	26%	58	18%	57	19%
45 to 49	40	17%	75	23%	43	15%
50+	55	24%	68	21%	39	13%
<b>Total</b>	<b>231</b>	<b>100%</b>	<b>322</b>	<b>100%</b>	<b>293</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM) and reported exposure of male-to-male sex and injection drug use (MSM/IDU)

<sup>2</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or undetermined

<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 13. Males living with HIV/AIDS on December 31, 2007 by current age and exposure mode: Massachusetts**

	<b>MSM<sup>1</sup></b>		<b>MSM/IDU<sup>2</sup></b>		<b>MSM + MSM/IDU</b>		<b>Non- MSM/Unknown Males Only<sup>3</sup></b>	
<b>Years:</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	0	0%	0	0%	0	0%	37	1%
13 to 19	4	<1%	0	0%	4	<1%	90	2%
20 to 24	67	1%	2	<1%	69	1%	54	1%
25 to 29	207	4%	7	1%	214	3%	107	2%
30 to 34	355	6%	26	5%	381	6%	254	4%
35 to 39	745	13%	79	15%	824	13%	621	11%
40 to 44	1,342	23%	146	27%	1,488	24%	1,120	19%
45 to 49	1,270	22%	137	25%	1,407	22%	1,397	24%
50+	1,783	31%	142	26%	1,925	30%	2,108	36%
<b>Total</b>	<b>5,773</b>	<b>100%</b>	<b>539</b>	<b>100%</b>	<b>6,312</b>	<b>100%</b>	<b>5,788</b>	<b>100%</b>

<sup>1</sup> MSM = Male-to-male sex<sup>2</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>3</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 14. MSM<sup>1</sup> and non-MSM/unknown<sup>2</sup> males living with HIV/AIDS on December 31, 2007 by race/ethnicity and current age: Massachusetts**

	White Non-Hispanic		Black Non-Hispanic		Hispanic	
<b>MSM</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	0	0%	0	0%	0	0%
13 to 19	0	0%	2	<1%	2	<1%
20 to 24	27	1%	23	3%	16	2%
25 to 29	108	2%	50	6%	53	6%
30 to 34	222	5%	51	6%	98	12%
35 to 39	513	11%	127	16%	155	18%
40 to 44	1,055	23%	172	22%	224	26%
45 to 49	1,083	24%	148	19%	160	19%
50+	1,551	34%	215	27%	139	16%
<b>Total</b>	<b>4,559</b>	<b>100%</b>	<b>788</b>	<b>100%</b>	<b>847</b>	<b>100%</b>
<b>Non-MSM/ Unknown</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Less than 13	7	<1%	18	1%	11	1%
13 to 19	17	1%	41	2%	32	2%
20 to 24	10	1%	18	1%	26	1%
25 to 29	25	1%	27	1%	51	3%
30 to 34	49	3%	70	4%	121	6%
35 to 39	140	8%	187	9%	274	14%
40 to 44	330	20%	325	17%	441	22%
45 to 49	438	26%	449	23%	489	24%
50+	672	40%	834	42%	571	28%
<b>Total</b>	<b>1,688</b>	<b>100%</b>	<b>1,969</b>	<b>100%</b>	<b>2,016</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM) and reported exposure of male-to-male sex and injection drug use (MSM/IDU)

<sup>2</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or undetermined

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 15. Males diagnosed with HIV infection by mode of exposure and place of birth: Massachusetts, 2004–2006<sup>1</sup>**

	<b>MSM<sup>2</sup></b>		<b>MSM/IDU<sup>3</sup></b>		<b>MSM + MSM/IDU</b>		<b>Non-MSM/Unknown Males Only<sup>4</sup></b>	
	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
United States	774	82%	43	88%	817	83%	473	54%
PR/US Depen. <sup>5</sup>	31	3%	3	6%	34	3%	133	15%
Non-US	135	14%	3	6%	138	14%	265	30%
<b>Total</b>	<b>940</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>989</b>	<b>100%</b>	<b>871</b>	<b>100%</b>

<sup>1</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis<sup>2</sup> MSM = Male-to-male sex<sup>3</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>4</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk<sup>5</sup> PR/US Depen. = Puerto Rico/US Dependency; 97% of people diagnosed with HIV infection from 2004–2006 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands and 2% were born in an unknown US dependency

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 16. Males living with HIV/AIDS on December 31, 2007 by mode of exposure and place of birth: Massachusetts**

	<b>MSM<sup>1</sup></b>		<b>MSM/IDU<sup>2</sup></b>		<b>MSM + MSM/IDU</b>		<b>Non-MSM/Unknown Males Only<sup>3</sup></b>	
	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
United States	4,957	86%	441	82%	5,398	86%	3,367	58%
PR/US Depen. <sup>4</sup>	177	3%	65	12%	242	4%	1,152	20%
Non-US	639	11%	33	6%	672	11%	1,269	22%
<b>Total</b>	<b>5,773</b>	<b>100%</b>	<b>539</b>	<b>100%</b>	<b>6,312</b>	<b>100%</b>	<b>5,788</b>	<b>100%</b>

<sup>1</sup> MSM = Male-to-male sex<sup>2</sup> MSM/IDU = Male-to-male sex and Injection Drug Use<sup>3</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or no identified risk<sup>4</sup> PR/US Depen. = Puerto Rico/US Dependency; 96% of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 17. MSM<sup>1</sup> and Non-MSM/Unknown<sup>2</sup> males diagnosed with HIV infection by race/ethnicity and place of birth: Massachusetts, 2004–2006<sup>3</sup>**

	White Non-Hispanic		Black Non-Hispanic		Hispanic	
<b>MSM</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
United States	614	93%	117	85%	74	44%
PR/US Depen. <sup>4</sup>	3	<1%	1	1%	30	18%
Non-US	44	7%	20	14%	65	38%
<b>Total</b>	<b>661</b>	<b>100%</b>	<b>138</b>	<b>100%</b>	<b>169</b>	<b>100%</b>
<b>Non-MSM/ Unknown</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
United States	217	94%	159	49%	87	30%
PR/US Depen. <sup>4</sup>	0	0%	1	<1%	132	45%
Non-US	14	6%	162	50%	74	25%
<b>Total</b>	<b>231</b>	<b>100%</b>	<b>322</b>	<b>100%</b>	<b>293</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM) and reported exposure of male-to-male sex and injection drug use (MSM/IDU)

<sup>2</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or undetermined

<sup>3</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis

<sup>4</sup> PR/US Depen. = Puerto Rico/US Dependency; 97% of people diagnosed with HIV infection from 2004-2006 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands and 2% were born in an unknown US dependency

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 18. MSM<sup>1</sup> and Non-MSM/Unknown<sup>2</sup> males living with HIV/AIDS by race/ethnicity and place of birth: Massachusetts**

	White Non-Hispanic		Black Non-Hispanic		Hispanic	
<b>MSM</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
US	4,321	95%	700	89%	313	37%
PR/US Depen. <sup>3</sup>	14	<1%	3	<1%	225	27%
Non-US	224	5%	85	11%	309	36%
<b>Total</b>	<b>4,559</b>	<b>100%</b>	<b>788</b>	<b>100%</b>	<b>847</b>	<b>100%</b>
<b>Non-MSM/ Unknown</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
US	1,593	94%	1,149	58%	591	29%
PR/US Depen. <sup>3</sup>	6	<1%	13	1%	1,133	56%
Non-US	89	5%	807	41%	292	14%
<b>Total</b>	<b>1,688</b>	<b>100%</b>	<b>1,969</b>	<b>100%</b>	<b>2,016</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM) and reported exposure of male-to-male sex and injection drug use (MSM/IDU)

<sup>2</sup> Includes males whose primary reported mode of exposure was injection drug use, heterosexual sex, presumed heterosexual sex, blood/blood products, or undetermined

<sup>3</sup> PR/US Depen. = Puerto Rico/US Dependency; 96% of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Technical Notes:**

Tables 19–23 include data reported by Massachusetts residents through anonymous telephone interviews from 2000 to 2006. This ongoing random-digit-dial telephone survey, the Behavioral Risk Factor Surveillance System (BRFSS), covers a broad range of topic areas (including risk related to sexual activity) and is part of a CDC-funded national survey program.

**Table 19. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64<sup>1</sup> years by sex of sexual partner(s) during the past 12 months: Massachusetts, 2000–2005**

Males ages 18–64			
Year	Same-Sex/ Both Sexes	Opposite Sex	N
2000	6.2%	93.8%	1,527
2001	4.3%	95.7%	1,528
2002	8.5%	91.5%	952
2003	7.2%	92.8%	894
2004	9.4%	90.6%	977
2005	4.9%	95.1%	834
2006	5.4%	94.6%	1,217

<sup>1</sup> Sexually active in past year

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS)

**Table 20. Demographic profile of men ages 18–64 years who reported sex with men in the past year among Behavioral Risk Factor Surveillance System (BRFSS) respondents: MA, 2005–2006**

<b>Age, in Years:</b>	<b>N=96</b>	<b># of Sexual Partners:</b>	<b>N=93</b>
18–24	11.0%	1 Partner	57.1%
25–34	23.2%	2 Partner(s)	22.2%
35–44	41.1%	3 or more Partner(s)	20.6%
45–64	24.7%		
<b>Race:</b>	<b>N=96</b>	<b>Condom Use at Last Sexual Encounter:</b>	<b>N=95</b>
White (non-Hispanic)	82.2%	Yes	49.9%
Black (non-Hispanic)	2.5%	No	50.1%
Hispanic	12.8%		
<b>Education:</b>	<b>N=96</b>	<b>Reason for Condom Non-Use</b>	<b>N=56</b>
Less than High School	14.1%	One partner	57.0%
High School Graduate	14.1%	Do not like using condom	3.2%
1–3 Years of College	16.3%	Oral sex only	35.9%
College Graduate	55.5%	Other	3.9%
<b>Income:</b>	<b>N=88</b>	<b>Health Service Region (HSR)<sup>1</sup>:</b>	<b>N=133</b>
\$<25,000	9.9%	Boston HSR	31.0%
\$25,000–34,999	11.8%	Central HSR	8.1%
\$35,000–49,999	7.6%	Metro West HSR	22.1%
\$50,000–74,999	33.1%	Northeast HSR	18.0%
\$75,000+	37.5%	Southeast HSR	15.7%
		Western HSR	5.1%

<sup>1</sup> HSRs are regions defined geographically to facilitate targeted health service planning.  
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2005–2006



**Table 21. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64<sup>1</sup> years reporting same-sex partner<sup>2</sup> by condom use at last sexual encounter<sup>3</sup> and year: Massachusetts, 2000–2006**

Year	Used Condom (%)	Did not Use Condom (%)	Total (N) <sup>4</sup>
2000	34%	66%	94
2001	38%	63%	64
2002	46%	54%	81
2003	39%	61%	63
2004	42%	58%	91
2005	56%	44%	39
2006	44%	56%	60

<sup>1</sup> Sexually active in past year  
<sup>2</sup> During the past 12 months  
<sup>3</sup> Includes oral, vaginal, or anal sex but not masturbation  
<sup>4</sup> Annual number of male respondents reporting same sex partner  
 Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2000–2006

**Table 22. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18–64<sup>1</sup> years reporting same-sex partner<sup>2</sup> by race/ethnicity: Massachusetts, 2005–2006**

Race/Ethnicity:	Males Reporting Same-Sex Partner	
	N	%
White (Non-Hispanic)	1,683	3.9%
Black (Non-Hispanic)	104	2.1%
Hispanic	180	5.0%

<sup>1</sup> Sexually active in past year  
<sup>2</sup> During the past 12 months  
 Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2005–2006

**Table 23. Percent of male Behavioral Risk Factor Surveillance System (BRFSS) respondents ages 18 – 64<sup>1</sup> reporting same-sex partner<sup>2</sup> compared to male respondents reporting opposite-sex partner<sup>2</sup> by number of sexual partners in the past year and condom use at last sexual encounter: Massachusetts, 2005–2006**

	<b>Males Reporting Same-Sex Partner</b>	<b>Males Reporting Opposite-Sex Partner</b>
<b>Number of Sexual Partners:</b>	<b>%</b>	<b>%</b>
1 partner	57.1%	86.9%
2 partners	22.2%	3.8%
3 or more partners	20.6%	9.3%
<b>Total N</b>	<b>93</b>	<b>1,939</b>
<b>Condom Use:</b>	<b>%</b>	<b>%</b>
Yes	49.9%	22.7%
No	50.1%	77.3%
<b>Total N</b>	<b>95</b>	<b>1,950</b>
<sup>1</sup> Sexually active in past year		
<sup>2</sup> During the past 12 months		
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2005–2006		

**Technical Notes:**

Tables 24–26 include data reported by students in randomly selected Massachusetts high schools every odd year from 1993 to 2005. This anonymous survey, the Youth Risk Behavior Survey (YRBS), is administered by the Massachusetts Department of Education in collaboration with the Centers for Disease Control and Prevention and focuses on risk behaviors that may compromise the health and/or safety of high school students.

**Table 24. Percentage of male respondents by sex of sexual partner(s) and year: Massachusetts Youth Risk Behavior Survey, 1993–2005<sup>1</sup>**

Year	Same-Sex/ Both Sexes		Opposite-Sex	
	%	Total N <sup>2</sup>	%	Total N <sup>2</sup>
1993	3.9%	56	56.6%	829
1995	2.5%	44	53.1%	955
1997	3.5%	69	48.7%	941
1999	4.2%	89	54.5%	1,169
2001	3.0%	63	55.0%	1,080
2003	3.5%	59	53.6%	931
2005	4.9%	79	56.2%	881

<sup>1</sup> A random sample of high schools is selected for participation each year, data presented do NOT represent cohorts followed over time

<sup>2</sup> Total N = total number of respondents by sex. The number of respondents for each question varies because not all questions are asked of everyone taking the survey and even when the question is asked some survey participants do not provide an answer

Data Source: Massachusetts Department of Education, Youth Risk Behavior Survey (YRBS), 1993–2005

**Table 25. Sexual behavior as reported among school-aged male respondents, Youth Risk Behavior Survey (YRBS): Massachusetts, 2005**

	<b>Sex of Partner</b>			
	<b>Opposite-Sex</b>		<b>Same-Sex/ Both Sexes</b>	
By Behavior:	% <sup>1</sup>	Total N <sup>2</sup>	% <sup>1</sup>	Total N <sup>2</sup>
Ever had sexual intercourse <sup>3</sup>	80.6%	781	79.7%	65
Sexual intercourse before age 13	12.9%	780	24.6%	65
4 or more lifetime sexual intercourse partners	23.6%	774	38.2%	63
4 or more sexual intercourse partners in last 3 months	5.1%	780	14.6%	62
Alcohol/drugs used at last intercourse <sup>4</sup>	25.5%	413	35.2%	36
Condom used at last intercourse <sup>4</sup>	72.7%	403	56.6%	36
Ever been diagnosed with any STD	6.1%	867	12.7%	72
Ever injected illegal drugs	2.4%	870	9.8%	76
<sup>1</sup> % = percent of total responding "yes" to specified question <sup>2</sup> N = total number of respondents by sex of partner for each question. The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not provide an answer <sup>3</sup> Question asked of a sample of males who reported any sexual contact with opposite sex partner, same sex partner, or both <sup>4</sup> Among youth reporting sexual intercourse in the past three months Data Source: Massachusetts Department of Education, Youth Risk Behavior Survey (YRBS), 2005				

**Table 26. Percentage of Massachusetts Youth Risk Behavior Survey (YRBS) male respondents reporting condom use at last sexual intercourse<sup>1</sup> by year and sex of partner: Massachusetts, 1993–2005**

Year	Opposite-Sex		Same-Sex/ Both Sexes		Total	
	%	Total N <sup>2</sup>	%	Total N <sup>2</sup>	%	Total N <sup>2</sup>
1993	58.5%	384	42.3%	24	57.4%	409
1995	60.3%	519	40.0%	28	59.9%	623
1997	65.4%	480	45.5%	34	64.2%	517
1999	64.4%	542	39.1%	44	62.6%	589
2001	63.6%	506	18.5%	27	61.6%	553
2003	62.0%	395	29.6%	27	60.3%	424
2005	72.7%	403	56.6%	36	71.6%	442

<sup>1</sup> Among youth reporting sexual intercourse in the past three months

<sup>2</sup> Total N = total number of respondents by sex. The number of respondents for each question varies because not all questions are asked of everyone taking the survey and, even when the question is asked, some survey participants do not provide an answer

Data Source: Massachusetts Department of Education, Youth Risk Behavior Survey (YRBS), 1993–2005

**Table 27. Proportion of reported infectious syphilis cases that were among men who have sex with men (MSM): Massachusetts, 2000–2007**

Year	Number of Cases among MSM	Total Number of Cases	Proportion of Cases among MSM
2000	33	142	23%
2001	52	105	50%
2002	117	208	56%
2003	178	260	68%
2004	146	209	70%
2005	159	222	72%
2006	156	218	71%
2007 <sup>1</sup>	173	256	68%

<sup>1</sup> 2007 data are preliminary

Data Source: MDPH Division of STD Prevention

**Table 28. Reported infectious syphilis cases among men who have sex with men by HIV status and year of diagnosis: Massachusetts, 2001–2007**

Year	HIV-Positive		HIV-Negative/ Unknown Serostatus		Total
	N	%	N	%	N
2001	6	12%	46	88%	52
2002	49	42%	68	58%	117
2003	73	41%	105	59%	178
2004	58	40%	88	60%	146
2005	83	52%	76	48%	159
2006	74	47%	82	53%	156
2007 <sup>1</sup>	82	47%	91	53%	173

<sup>1</sup> 2007 data are preliminary

Note: HIV status of syphilis cases is not available for 2000

Data Source: MDPH Division of STD Prevention

**Table 29. Reported AIDS cases by exposure mode and year of diagnosis: Massachusetts, 1985–2006<sup>1</sup>**

	MSM <sup>2</sup>		IDU <sup>3</sup>		MSM/ IDU		HTSX <sup>4</sup>		Other <sup>5</sup>		Pres. HTSX <sup>6</sup>		Undet. <sup>7</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1985	141	63%	32	14%	12	5%	7	3%	12	5%	18	8%	3	1%	225
1990	478	44%	344	32%	45	4%	74	7%	56	5%	55	5%	27	3%	1,079
1995	440	31%	582	41%	63	4%	165	12%	34	2%	69	5%	53	4%	1,406
1997	251	27%	370	40%	36	4%	124	13%	19	2%	81	9%	49	5%	930
1998	253	26%	353	36%	33	3%	125	13%	12	1%	140	14%	52	5%	968
1999	234	25%	373	40%	30	3%	114	12%	4	<1%	154	16%	27	3%	936
2000	178	23%	268	34%	17	2%	136	17%	8	1%	148	19%	34	4%	789
2001	171	24%	212	30%	29	4%	108	15%	13	2%	133	19%	44	6%	710
2002	168	25%	192	28%	25	4%	113	16%	8	1%	128	19%	51	7%	685
2003	139	24%	166	29%	17	3%	85	15%	10	2%	103	18%	62	11%	582
2004	158	25%	156	25%	19	3%	78	13%	8	1%	130	21%	74	12%	623
2005	162	28%	146	25%	19	3%	81	14%	3	1%	116	20%	62	11%	589
2006 <sup>1</sup>	162	33%	79	16%	13	3%	65	13%	4	1%	120	24%	50	10%	493

<sup>1</sup> 2006 data are preliminary<sup>2</sup> MSM = Male-to-male sex<sup>3</sup> IDU = Injection Drug Use<sup>4</sup> HTSX = Heterosexual Sex<sup>5</sup> Other includes pediatric and receipt of blood/blood products<sup>6</sup> Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status<sup>7</sup> Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 30. Deaths among persons reported with AIDS by mode of exposure and year of death: Massachusetts, 1985–2006**

	MSM <sup>1</sup>		IDU <sup>2</sup>		MSM/ IDU		HTSX <sup>3</sup>		Other <sup>4</sup>		Pres. HTSX <sup>5</sup>		Undet. <sup>6</sup>		To- tal
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1985	73	61%	16	13%	8	7%	0	0%	9	8%	12	10%	2	2%	120
1990	352	56%	156	25%	27	4%	25	4%	28	4%	28	4%	16	3%	632
1995	440	37%	453	38%	41	3%	135	11%	40	3%	30	3%	47	4%	1,186
1997	95	25%	185	48%	20	5%	47	12%	13	3%	6	2%	20	5%	386
1998	83	25%	181	55%	8	2%	29	9%	2	1%	13	4%	16	5%	332
1999	63	18%	187	54%	18	5%	29	8%	13	4%	25	7%	14	4%	349
2000	70	21%	177	53%	16	5%	23	7%	12	4%	24	7%	15	4%	337
2001	83	22%	183	49%	20	5%	26	7%	5	1%	29	8%	24	6%	370
2002	68	21%	168	53%	14	4%	31	10%	9	3%	18	6%	11	3%	319
2003	66	20%	163	49%	14	4%	41	12%	8	2%	24	7%	19	6%	335
2004	47	17%	139	51%	18	7%	23	8%	7	3%	20	7%	21	8%	275
2005	37	15%	135	54%	12	5%	25	10%	1	<1%	21	8%	17	7%	248
2006	57	23%	129	51%	13	5%	21	8%	2	1%	18	7%	13	5%	253

<sup>1</sup> MSM = Male-to-male sex<sup>2</sup> IDU = Injection Drug Use<sup>3</sup> HTSX = Heterosexual Sex<sup>4</sup> Other includes pediatric and receipt of blood/blood products<sup>5</sup> Pres. HTSX = Presumed Heterosexual Sex, heterosexual sex with partners with unknown risk and HIV status<sup>6</sup> Undet. = Undetermined; includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); data as of 1/1/08

**Table 31. Deaths among persons reported with HIV/AIDS by exposure mode and year of death: Massachusetts, 1999–2006**

	MSM		IDU		MSM/ IDU		HTSX		Other <sup>1</sup>		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1999	72	18%	214	54%	18	5%	33	8%	13	3%	30	8%	18	5%	398
2000	76	20%	203	54%	16	4%	25	7%	12	3%	28	7%	16	4%	376
2001	91	21%	219	52%	20	5%	29	7%	6	1%	29	7%	30	7%	424
2002	77	20%	206	54%	17	4%	36	9%	9	2%	25	7%	12	3%	382
2003	74	19%	199	50%	17	4%	49	12%	8	2%	30	8%	22	6%	399
2004	61	18%	168	51%	20	6%	26	8%	8	2%	26	8%	22	7%	331
2005	46	15%	163	54%	13	4%	33	11%	3	1%	24	8%	19	6%	301
2006	60	20%	150	51%	16	5%	26	9%	3	1%	24	8%	17	6%	296

<sup>1</sup> Other includes pediatric and receipt of blood/blood products<sup>2</sup> Heterosexual sex with partners with unknown risk and HIV status<sup>3</sup> Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/08